

# SAFETY DATA SHEET



**Product Name:** **STABILISED CHLORINE GRANULES**

**SDS Reference** 001

**Version No.** 1

**Revision No.**

**Authorisation date** January 23<sup>rd</sup> 2002

## 1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

**Product Name** SODIUM DICHLOROISOCYANURATE DIHYDRATE GRANULES  
**Synonym (s)** TROCLOSENE SODIUM DIHYDRATE, DICHLOR  
**Use(s)** Chlorination of swimming pools  
**Company Identification** **PLASTICA LTD**  
**Perimeter House,**  
**Napier Road,** **Telephone +44 (0) 1424 857857**  
**St Leonards-on-Sea, East Sussex, TN38 9NY**  
**Emergency Telephone** 09062 655005 (24hr)

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

**Chemical Characterisation** CHLORINATED ISOCYANURATE  
**CAS number** 51580-86-0  
**EINECS number** Not assigned  
**EC Index number**

## 3. HAZARDS IDENTIFICATION

### Physical & Chemical:



**HARMFUL**

**Health:** HARMFUL IF SWALLOWED.  
CONTACT WITH ACIDS LIBERATES TOXIC GAS  
IRRITATING TO EYES AND RESPIRATORY SYSTEM



**DANGEROUS  
FOR THE  
ENVIRONMENT**

**Environmental:** VERY TOXIC TO AQUATIC ORGANISMS. MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

## 4. FIRST AID MEASURES

### General information

**Inhalation** Remove casualty to fresh air and provide warmth and rest. If necessary, seek medical advice.  
**Skin contact** Clean areas of skin affected immediately with plenty of water. If necessary, seek medical advice.  
**Eye contact** Immediately wash out eye thoroughly with plenty of water until irritation subsides. If necessary (e.g. irritation persists), consult an eye specialist/ophthalmologist.  
**Ingestion** Allow the patient to vomit on his own accord. Give copious water to drink; If necessary, seek medical advice.

Product Name:

# STABILED CHLORINE GRANULES

SDS Reference 001

## 5. FIRE FIGHTING MEASURES

<b>General hazard</b>	THE PRODUCT WILL BURN IN A FIRE
<b>Extinguishing media</b>	To suit local surroundings (e.g. water spray, foam, dry chemical powder)
<b>Extinguishing media not to be used</b>	Small amounts of water.
<b>Special exposure hazards</b>	The thermal decomposition products released should be considered toxic if inhaled.
<b>Protective equipment</b>	Wear self-contained breathing apparatus.
<b>Further information</b>	Avoid run-off water entering the drains (e.g. use barriers) Cool endangered containers with water (to prevent container explosion).

## 6. ACCIDENTAL RELEASE MEASURES

<b>Methods for cleaning up</b>	Adhere to personal protective measures. Take up mechanically (e.g. sweep or vacuum up) into a suitable container (e.g. polyethylene lined). Label container and dispose of as prescribed.
<b>Environmental considerations</b>	Do not allow to get into waste water or waterways; if this occurs, inform the relevant water authority at once.
<b>Further information</b>	

## 7. HANDLING & STORAGE

<b>Advice on safe handling</b>	Handle in accordance with good hygiene and safety practice. Only use with equipment made from ceramics, plastic or glass. Keep the raising and deposition of dust to a minimum.
<b>Storage conditions</b>	Ensure adequate ventilation of the storage area. Keep containers tightly closed and dry away from acids and foodstuffs. Protect from sunlight. Do not store on side.
<b>Further information</b>	

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Exposure controls</b>	Monitoring of the workplace should be considered in accordance with EH40 (or equivalent) controls. LTEL (8 hour TWA):                      ppm                      10    mg/m <sup>3</sup> Total inhalable dust (EH40/2005) LTEL (8 hour TWA):                      ppm                      4    mg/m <sup>3</sup> Respirable dust (EH40/2005) LTEL (8 hour TWA):                      0.5   ppm                      1.5   mg/m <sup>3</sup> WEL for chlorine (EH40/2005) STEL (15 min):                              1.0   ppm                      2.9   mg/m <sup>3</sup> WEL for chlorine (EH40/2005)
<b>Engineering controls</b>	Ensure adequate ventilation of working area
<b>Personal protection</b>	Observe normal standards for handling chemicals. Avoid breathing dust and contact with eyes Wash hands before breaks and after work. Wear personal protective equipment appropriate to the task (see below)
<b>Eye protection</b>	Safety goggles (i.e. EN 166 approved)
<b>Skin protection</b>	Natural rubber latex gloves (also consider your own risk assessment; e.g. breakthrough times, rates of diffusion and degradation, tasks undertaken)
<b>Respiratory protection</b>	When dusty conditions are encountered, wear a NIOSH/OSHA full-face respirator with chlorine cartridge and dust pre filter.
<b>Other protection</b>	Protective overall.

Product Name:

# STABILED CHLORINE GRANULES

SDS Reference 001

## 9. PHYSICAL & CHEMICAL PROPERTIES

Physical form	Granules
Colour	White
Odour	Chlorine-like
pH	6.5
Boiling pt / range	°C
Melting pt / range	240-250 °C (decomposes)
Flash point	°C
Auto flammability	°C
Specific gravity	1 (bulk density)
Explosive limits	Lower: % (v/v) Higher: % (v/v)
Viscosity	
Water solubility	262 g/l at 25°C

## 10. STABILITY & REACTIVITY

Stability	Stable under normal conditions of handling.
Thermal decomposition	240-250°C with evolution of chlorine gas.
Conditions to avoid	Moisture. Heating above decomposition temperature.
Material to avoid	The product is incompatible with nitrogen compounds, calcium hypochlorite, acids, organic materials, combustible materials and reducing agents.
Hazardous reactions	
Hazardous decomposition products	Chlorine and nitrogen trichloride following contact with acids or water.

## 11. TOXICOLOGICAL INFORMATION

Acute toxicity	LD <sub>50</sub> rat (oral) 927 mg/kg LD <sub>10</sub> man (oral) 3570 mg/kg
Dermal compatibility	No data available
Mucous membrane compatibility	Corrosive to tissue when inhaled.
Further information	Ingestion may cause gastric ulceration and bleeding plus gastrointestinal irritation, lacrimation, weakness, lethargy and diarrhoea. Autopsy indicates G.I. tract and liver discolouration and kidney hyperaemia. May be toxic for reproduction.

## 12. ECOLOGICAL INFORMATION

Acute toxicity	LC <sub>50</sub> Fish mg/l No data available
Degradability	Decomposes slowly in water.
Further information	The product is very toxic to fish. Do not allow to get into wastewater or waterways; if this occurs, inform the relevant water authority at once.

Product Name:

# STABILED CHLORINE GRANULES

SDS Reference 001

## 13. DISPOSAL CONSIDERATIONS

- Advice on disposal** In accordance with national and local authority regulations, e.g. The Hazardous Waste (England & Wales) Regulations 2005.
- Contaminated packaging** Treat empty containers in the same way as the product or if possible wash out thoroughly and recycle.

## 14. TRANSPORT INFORMATION

- United Nations number** Not classified
- Packaging group**
- IMDG code**
- RID / ADR**
- ICAO / IATA**
- Marine pollutant** The product should be marked as a marine pollutant
- Proper shipping name**
- Emergency action code**
- Further information**

## 15. REGULATORY INFORMATION

- Classification & labelling** The product is classified in accordance with the Chemicals (Hazard Information and Packaging for Supply) Regulations [CHIP 3.1]. Contains sodium dichloroisocyanurate dihydrate



**HARMFUL**



**DANGEROUS  
FOR THE  
ENVIRONMENT**

- Risk phrases**
- |        |  |
|--------|--|
| R22    | HARMFUL IF SWALLOWED.  |
| R31    | CONTACT WITH ACIDS LIBERATES TOXIC GAS   |
| R36/37 | IRRITATING TO EYES AND RESPIRATORY SYSTEM  |
| R50/53 | VERY TOXIC TO AQUATIC ORGANISMS; MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT. |
- Safety phrases**
- |     |   |
|-----|---|
| S2  | KEEP OUT OF THE REACH OF CHILDREN.  |
| S8  | KEEP CONTAINER DRY  |
| S26 | IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE. |
| S41 | IN CASE OF FIRE AND/OR EXPLOSION DO NOT BREATHE FUMES.  |
| S60 | THIS MATERIAL AND/OR ITS CONTAINER MUST BE DISPOSED OF AS HAZARDOUS WASTE.                    |
| S61 | AVOID RELEASE TO THE ENVIRONMENT. REFER TO SPECIAL INSTRUCTIONS/SAFETY DATA SHEET.            |

**Product Name:**

**STABILED CHLORINE  
GRANULES**

**SDS Reference 001**

**16. OTHER INFORMATION**

**Further information**

**Sources of data** The Approved Supply List, EH40 (2005) and other suppliers' safety data sheets

**Date of issue** 02-05-2006

**This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of PLASTICA'S limited knowledge and belief, accurate, and reliable as of the date of authorisation of this safety data sheet. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to be satisfied as to the suitability and completeness of such information for the product as used.**

**Data sheet prepared by Rising HS&E Services.**